

Amendments to Claims

This listing of claims will replace all prior versions, and listings of claims in the application.

Listing of Claims:

Claim 1 (canceled)

2. (previously presented) An isolated DNA molecule having a nucleotide sequence comprising SEQ ID NO: 12, wherein adenine is in nucleotide position 307 of the open reading frame instead of guanine.

Claim 3 (canceled)

4. (currently amended) An isolated DNA molecule which is more than 85% identical to the complementary sequence to the nucleotide sequence of claim 2.

Claim 5 (canceled)

6. (currently amended) ~~The isolated DNA molecule as set forth in claim 2,~~ An isolated DNA molecule having a nucleotide sequence comprising SEQ ID NO: 12, wherein, a thymine is in nucleotide position 229 instead of a cytosine.

7. (currently amended) A fragment of the isolated DNA molecule of claim 2, said fragment ~~including~~ comprising a nucleotide sequence that distinguishes a polymorphism at position 307 of the open reading frame of SEQ ID NO: 12 in E. coli F18 colonization resistant swine from sensitive swine, wherein the fragment is more than 85% identical to SEQ ID NO: 12.

Claims 8-11 (canceled)

12. (new) An isolated DNA molecule having a nucleotide sequence comprising SEQ ID NO: 12, wherein, an adenine is in nucleotide position 307 of the open reading frame instead of guanine and a thymine is in nucleotide position 229 instead of a cytosine.